

4/3/2018

Print



Dart Hawkesbury  
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200

## Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Tot
PO039318	MEC002-VU	6	1	Net 30	M7075T6S.160	7075-T6 Sheet .160 : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive sf				48	4/4/2018	48		S057742	Stock	4/3/2018	\$ 13.73 / sf	0		\$65
Total:										48		48								\$65

Plex 4/3/2018 1:18 PM Dart.Dubois.Pascal



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# **PURCHASE ORDER** **PO039318**

**Supplier:** MEC002-VU  
Metaux Castle  
P.O. Box 4090 Stn A  
Toronto  
ON  
M5W OE9 Canada

**PO No:** PO039318

**PO Date:** 3/14/18

**Due Date:** 4/4/18

**Purchase Order**

**Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal

Phone: clavoie@dartaero.com

**Via:** Ground

**Pynt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

**E-MAILED**

MAR 14 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

## **Items**

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M7075T6S0.375X5.000		M7075T6S0.375 X 5.000 : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	4/4/18	12 ft	0 ft	12 ft	\$18.10/ft	\$217.20
						12			MAR 29 2018	
									DAS	
									11	
									9-8	
2	M7075T6S6.000X0.250		7075-T6S Sheet 6" Thick Plate X 0.25" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	4/4/18	12 ft	0 ft	12 ft	\$20.75/ft	\$249.00
						12			MAR 29 2018	
									DAS	
									11	
									9-8	
3	M7075T6S1.750X4.500		M7075T6 Sheet 1.750 Thick X 4.500 Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	4/4/18	12 ft	0 ft	12 ft	\$48.90/ft	\$586.80

## PURCHASE ORDER

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
4	M7075T6S1.000X7.000		7075-T6 Sheet 1" Thick Plate X 7" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	4/4/18	12 ft	0 ft	12 ft	\$30.45/ft	\$365.40
5	M7075T6S1.250X7.000		7075-T6 Sheet 1.25" X 7.000" Order Pre Cut To 50.00" : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	4/4/18	33.333 ft	0 ft	33 ft	\$44.65/ft	\$1,488.32
Line Item Note 8 pcs cut at 50" = 33.3333 ft										
6	M7075T6S.160		7075-T6 Sheet .160 : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive sf	Firmed	4/4/18	48 sf	0 sf	48 sf	\$13.729166/sf	\$659.00
Grand Total:									\$3,565.72	

## Order Notes

## Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 3/14/18 1:32 PM dart.lavoie.chantal

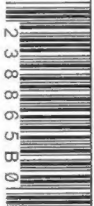
INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

Shipment No:3546819

<b>Ship From:</b>		<b>Sold To:</b>		<b>Ship To:</b>		<b>Deliver To:</b>	
A. M. CASTLE & CO. 14001 ORANGE AVENUE PARAMOUNT, CA 90723 USA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
<b>Date Shipped</b>	<b>F.O.B.</b>	<b>Freight Terms</b>		<b>Carrier</b>		<b>BOL No</b>	
21-MAR-18	ORIGIN	Prepaid		ARCBEST		3546819-2	

**Shipment Details** Final Destination Branch - TOR

<b>Order No</b>	<b>Line No</b>	<b>Item No</b>	<b>Description</b>				
5077183	5	771809.MO	0.1600.SH.7075.T6.ALUMINUM.BARE.MRS.48.0000.144.0000 - PROTECTIVE VINYL COATING SPECIFICATIONS: AMS-QQ-A-250/12				
<b>Purchase Order No</b>	<b>Part Number</b>		<b>Ordered Qty</b>	<b>Invoice Qty</b>			
39318			1.00 PCS	1.00 PCS			
<b>Details</b>							
ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS							
<b>Delivery No.</b>	<b>Mill/Source</b>	<b>Heat Number</b>	<b>Mech Id</b>	<b>PCS</b>	<b>Width (IN)</b>	<b>Length (IN)</b>	<b>Shipped Qty(LBS)</b>
121695803		 238865B01		1			111.6980

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size of material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:

Date:

Name:

Date Printed: 21-MAR-2018 04:17:14 PM



SHIP TO: A M CASTLE & CO 14001 ORANGE AVE P.O. BOX 1402 PARAMOUNT, CA 90723
SOLD TO: AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523

**KAISER  
ALUMINUM**  
Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number

4488309

CUSTOMER PO NUMBER: 440463-1	WORK PACKAGE:	CUSTOMER PART NUMBER: 771809	SHIP RUN/LOAD: 104118/12	GOV'T CONTRACT NUMBER:
KAISER ORDER NO: 1244918-1	SHIP DATE: 3-DEC-2017	ALLOY: 7075	CLAD: BARE	TEMPER: T6
PRODUCT DESCRIPTION: MRS Quality				
WEIGHT SHIPPED: 6163 LB	QUANTITY: 55 PCS EST.	TRUCK B/L #: 2070530	GAUGE: 0.1600 IN (4.0640 MM)	DIAMETER/WIDTH: 48.000 IN (1219.2 MM)
			LENGTH: 144.000 IN (3657.6 MM)	

MHU 2172386; LOT 706595B6: 30 pieces;

MHU 2172545; LOT 238865B0: 25 pieces;

### Certified Specifications

299-947-157/RevE.  
ASTM B 209/Rev14

AMS 4045/RevL  
BATS 2505/RevNC

AMS-QQ-A-250/12/RevA  
DMS 2174/RevB

Test Code: 4292

Lot: 238865B0 Cast 555

Drop 35

### Test Results

Ingot 5

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T6	LT / 2 (Min:Max)	84.5 : 84.8 (583 : 585)	73.6 : 74.0 (507 : 510)	12.3 : 12.7

MRS Deflection : 0.078 IN

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.18	1.4	0.03	2.5	0.20	5.7	0.02	0.01	0.01	TOT 0.03
Lot: 706595B6	Cast 555		Drop 35		Ingot 5		Parent Lot: 238865B0			Melted in USA	

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T6	LT / 2 (Min:Max)	83.8 : 84.2 (578 : 581)	73.0 : 76.5 (503 : 527)	12.6 : 12.7

MRS Deflection : 0.011 IN

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.18	1.4	0.03	2.5	0.20	5.7	0.02	0.01	0.01	TOT 0.03





Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4488309

### ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

### ORDER COMMENTS

AMC A97075-173 R 5

### TEST NOTES

MATERIAL MEETS MINIMUM RESIDUAL STRESS (MRS) / CHEMICAL  
MILLING QUALITY (CMQ) REQUIREMENTS.

### CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- \* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance with applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- \* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- \* has been thermally processed in compliance with AMS 2772, where applicable.
- \* is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
- \* is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- \* is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- \* is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- \* is free of weld repair.
- \* meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075T65-160  
 DATE: APR 03 2018

PO / BATCH NO.: 039318/5057742

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 48P<sup>12</sup>  
 QUANTITY INSPECTED: 48P<sup>12</sup>  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .160  
 THICKNESS RECEIVED: .160  
 SHEET SIZE ORDERED: 4x12  
 SHEET SIZE RECEIVED: 4x12

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	QQ-A-250/12
CORRECT THICKNESS	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	Heat # 238865130
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y	<input checked="" type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 APR 03 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# SPECIFICATION CONTROL DRAWING

**PURCHASE MATERIAL:** 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE

**SPECIFICATION:** QQ-A-250/12 OR AMS-QQ-A-250/12

OR AMS-4048  
OR ASTM B209

OR

**PURCHASE MATERIAL:** 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

**SPECIFICATION:** QQ-A-250/13 OR AMS-QQ-A-250/13  
OR AMS 4048 / 4049  
OR ASTM B209

**PART NUMBER:** M7075T6S | TTT | X | W | WWW |  
THK | WIDTH |

WHERE "TTT" = THICKNESS (IN INCHES)  
AND "W | WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063  
EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

**PREFERRED SIZE:** TTT BY 4FT BY 10FT FOR SHEET

RELEASED

2017 JUN 19  
ECN 17-574

APPROVED

B	ADD. REF. TO "PLATE" "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149)	CP	17.05.05
A	NEW ISSUE	RF	10.11.08
REV.	DESCRIPTION	BY	DATE
DESIGN	RF		
DRAWN	CP		
CHECKED	ML		
MFG. APPR.	LL		
APPROVED	WM		
DE APPR.	DS		
DATE	17.05.05		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. B	
DRAWING NO. M7075T6S		SHEET 1 OF 1	
TITLE 7075-T6 SHEET/PLATE SPEC		SCALE NTS	
THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT IS TO BE USED FOR THE PURPOSES SPECIFIED HEREIN ONLY. IT IS NOT TO BE USED FOR ANY PURPOSE, IN WHOLE OR IN PART, WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE LTD.			